tcgatcaagagcccgccactccaggcgcgatgctgttctggactgcgttcagcatggctttgagtctgcgg 71 MLFWTAFSMALSLR 14 ttggcattggcgcggagcagcatagagcgcggttccacagcatcagacccccagggggacctgttgttcctg 143 L A L A A R S S I E R G S T A S D P Q G D L L F 38 ttggacagctcagccagcgtgtcacactatgagttctcaagagttcgggaatttgtggggcagctggtggct 215 L D S S A S V S H Y E F S R V R E F V G Q L V A 62 287 T M S F G P G A L R A S L V H V G S Q P H T E F 86  ${\tt acttttgaccagtacagttcaggccaggctatacgggatgccatccgtgttgcaccccaacgtatgggtgat}$ 359 T F D Q Y S S G Q A I R D A I R V A P Q R M G D 110  ${\tt accaacacaggcctggcactggcttatgccaaagaacaattgtttgctgaggaagcaggtgcccggccaggg}$ 431 T N T G L A L A Y A K E Q L F A E E A G A R P G 134 gttcccaaggtgctggtgtgggtgacagatggtggctccagcgaccccgtgggcccccctatgcaggagctc 503 V P K V L V W V T D G G S S D P V G P P M Q E L 158  ${\tt aaggacctgggtgtcaccatcttcattgtcagcactggccgaggcaacctgttggagctgttggcagctgcc}$ 575 K D L G V T I F I V S T G R G N L L E L L A A A 182 tcggctcctgccgagaagcacctacactttgtggatgtggatgatcttcctatcattgcccgggagctgcgg 647 206 SAPAEKHLHFVDVDDL'PIIARELR ggctccataactgatgcgatgcagccacaacagcttcatgcctcggaggttctgtccagtggcttccgcctg 719 G S I T D A M Q P Q Q L H A S E V L S S G F R L 230 tcctggccgcccctgctgacagcggactctggttactacgtgctggaattggtacctagcggcaaactggca 791 S W P P L L T A D S G Y Y V L E L V P S G K L A 254 accacaagacgccaacagctgcccgggaatgctaccagctggacctggacagatctcgacccggacacagac 863 TTRRQQLPG<u>N</u>ATSWTWTDLDPDTD 278 tatgaagtatcactgctgcctgagtccaacgtgcacctcctgaggccgcagcacgtgcgagtacgcacactg 935 Y E V S L L P E S N V H L L R P Q H V R V R T L 302 caagaggaggccgggccagaacgcatcgtcatctcgcatgcgaggccgcgcagcctccgcgtaagctgggcc 1007 QEEAGPERIVISHARPRSLRVSWA 326 cccgcgcttggcccggactccgctctcggctaccatgtacagctcggacctctgcagggcgggtccctagag 1079 PALGPDSALGYHVQLGPLQGGSLE 350 cgcgtggaggtgccagcaggacagaacagcactaccgtccagggcctgacgccctqcaccacttacctggtg 1151 R V E V P A G Q N S T T V Q G L T P (C) T T Y L V 374 actgtgactgccgccttccgctccggccgccagagggcgctgtcggctaaggcctgtacggcctctggcgcg 1223 T V T A A F R S G R Q R A L S A K A (C) T A S G A 398 415 RTRAPQSMRPEAGPREP gggtggggagatggggatgccggtcctgcctttgaccagcgttaattcctttcgtcgtttccccactggtcat 1439 cgccgcccttgcctgacttccgggaaacccgggtagcctcacgcgcaatggcggtcctctccggttgccagt ggagttgagcacacggtggtccttgggcaactcttggcgaggggatggacagtgtctgaggtcaggttgagg acataagacccaggaaccgccttcaggagaggaggccacagagtttccaacctgtgccaaaggctgggccct tgggtaggagaaagggaagagactagtgtagacaggattcccgaaaacttcctcaaggaaaggaaagata gggaggtatgctgggaggctgatgatgtggcattggttttcatcaagatgtcctgccagcctagaggccggg atotgtcagggtcactgactctgccttcctgcccaggacctgcactgggccctcgatcagtgccaaggatgc 1943 agtcttttcacaggaatgggacgagaccttggcatttagggcctcagggataggagagccgcactatgacag 2015 attctaagggagcctcctgctttagtgtagggagcaaggtgtcatgcaggtgggctacctcctgccatcacc attaccctggggcatctgacagatacctaagggtggtcaggaacaggtttcctctcaagtccctatgtaggc 2159 ctctcctctcctcaga at catttgccttatcccaagcttactccatctcttccccactaatgacccggac2231 tctaacaacaatacagtcagacagacataaactgtgcctgcagtctcattaaaatgctgtatttttcgtcaa 2303 2308 aaaaaaaa

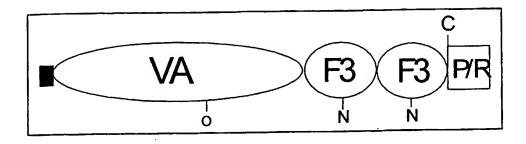


Figure 1B

human mouse	MLPWTALGLALSLRLALARSGAERGPPASAPRGDLMFLLDSSASVSHYEFSRVREFVGQL 60 MLFWTARSMALSLRLALARSSIERGSTASDPQGDLLFLLDSSASVSHYEFSRVREFVGQL 60 ** ***:::*****************************	[SEQ ID NO:20] [SEQ ID NO:21]
human mouse	VAPLPLGTGALRASLVHVGSRPYTEFPFGQHSSGEAAQDAVRASAQRMGDTHTGLALVYA 120 VATMSFGPGALRASLVHVGSQPHTEFTFDQYSSGQAIRDAIRVAPQRMGDTNTGLALAYA 120 **.:.:*.******************************	
human mouse	KEQLFAEASGARPGVPKVLVWVTDGGSSDPVGPPMQELKDLGVTVFIVSTGRGNFLELSA 180 KEQLFAEEAGARPGVPKVLVWVTDGGS <u>SDPVGPPMQELKDLGVTIFIVSTGRGNL</u> LELLA 180 ****** :******************************	
human mouse	AASAPAEKHLHFVDVDDLHIIVQELRGSILDAMRPQQLHATEITSSGFRLAWPPLLTADS 240 AASAPAEKHLHFVDVDDLPIIARELRGSITDAMQPQQLHASEVLSSGFRLSWPPLLTADS 240 ************************************	
human mouse	GYYVLELVPSAQPGAARRQQLPGNATDWIWAGLDPDTDYDVALVPESNVRLLRPQILRVR 300 GYYVLELVPSGKLATTRRQQLPGMATSWTWTDLDPDTDYEVSLLPESNVHLLRPQHVRVR 300 ***********************************	
human mouse	TRPEEAGPERIVISHARPRSLRVSWAPALGSAAALGYHVQFGPLRGGBAQRVEVPAGRNC 360 TLQEEAGPERIVISHARPRSLRVSWAPALGPDSALGYHVQLGPLQGGSLERVEVPAGQNS 360 * ***********************************	
human mouse	TTLOGLAPGTAYLVTVTAAFRSGRESALSAKACTPDGPRPRPRPVPRAPTPGTASREP 418 TTVQGLTPCTTYLVTVTAAFRSGRQRALSAKACTASGARTRAPQSMRPEAGPREP 415	

## Figure 1C

collagenXIV	IADIVILVDGSWSIGRFNFRLVRLFLENLVSAFNVGSEKTRVGLAQYSGDPRIEWHLN 58 [SEQ ID NO:22]
collagenvii collagenXII	SIGDDNFNKVVKFIFNTVGAFD-EVNPAGIQVSFVQYSDEVKSEFKLN 59 (SEQ ID SAGKDRFLLVQEFLSDVVESLAVGDNDFHFALVRLNGNPHTEFLLN 58 (SEQ ID
corray nvr matrilin-2	58 (SEQ ID NO:
matrilin-4	] 95
matrilin-3	58 [SEQ ID ]
matrilin-1	58 (SEQ ID
VLA	56 [SEQ ID ]
WARP	QGDLLFLLDSSASVSHYEFSKVKEFVGQLVAIMSFGFGALKASLVHVGSQFHIEFIFD SØ (SEQ ID NO:31) ***PITETITGGYNIGODDRNIOKNBYGKYAVMIAIGTEGDHYGYVOAGEHPKIEFYLK SØ (SEO ID NO:32)
cochlin	58 [SEQ ID
1	
collagenXIV	RNLPYKGGN-TLTGLALTYILENSFKPEAGARPGVSKIGILITDG
collagenVII	RELSYKGGN-TRTGAAILHVADHVFLPQLARPGVPKVCILIIDG
collagenXII	TYNDKALALGALQNIRYRGGN-TRIGKALIFIKEKVLIWESGMRKNVRVLG-VVTDG 114
collagenVI	TYHSKQEVLSHIANMSYIGGS-NQTGKGLEYVIHSHLTEASGSR-AADGVPQVIVVLTDG 116
matrilin-2	TFKRKSEVERAVKRMRHLSTG-TMTGLAIQYALNIAFSEAEGARPLRENVPRIIMIVTDG 117
matrilin-4	AFSRREDMERAIRAVVPLAQG-TMTGLAIQYAMNVAFSEAEGARPSEERVPRVLVIVTDG 115
matrilin-3	TYSDKQALKQAVARITPLSTG-TMSGLAIQTAMEEAFTVEAGARGPMSNIPKVAIIVTDG 117
matrilin-1	AHGSKASLLQAVRRIQPLSTG-TMTGLALQFAITKALSDAEGGRARSPDISKVVIVVTDG 117
VLA	KYSSTEEVLVAAKKIVQRGGRQTMTALGTDTARKEAFTEARGARRGVKKVMVIVTDG 113
WARP	QYSSGQAIRDAIR-VAPQRMGDTNTGLALAYAKEQLFAEEAGARPGVPKVLVWVTDG 114
cochlin	NFTAAKEVLFAIKELGFRGGN-SNTGKALKHAAQKFFSMENGARKGIPKIIVVFLDG 114
vwf	DRKRPSELRRIASQVKYAGSQVASTSEVLKYTLFQIFSKIDRPEASRIALLLMASQEP 116

## Figure 2A

[SEQ ID NO:22] [SEQ ID NO:23] [SEQ ID NO:24] [SEQ ID NO:25] [SEQ ID NO:25] [SEQ ID NO:27] [SEQ ID NO:27] [SEQ ID NO:29] [SEQ ID NO:39] [SEQ ID NO:31] [SEQ ID NO:33]	
KSQDDVIPPAKNLRDAGIELFAIGVKNADINELKEIASEPDS-THVYN 161 KSQDLVDTAAQRLKGQGVKLFAVGIKNADPEELKRVASQPTS-DFFFF 162 RSQDEVKKAAFVIQQSGFSVFVVGVADVDYNELANIASKPSE-RHVFI 161 QSEDGFALPSAELKSADVNVFAVGVEGADERALGEVASEPLLSMHVFN 164 RPQDSVAEVAAKARNTGILIFAIGVGQVDLNTLKAIGSEPHK-DHVFL 164 RPQDSVAEVAARARARGIEIYAVGVQRADVGSLRTMASPPLD-QHVFL 164 RPQDCVNEVAARARARGIEIYAVGVDRADMESLKMMASKPLE-EHVFY 164 RPQDSVRDVSERARASGIELFAIGLGRUDKATLRQIASEPQD-EHVDY 164 ESHDNHRLKKVIQDCEDENIQRFSIAILGSYNRGNLSTEKFVEEIKSIASEPTE-KHFFN 172 GSSDPVGPPMQELKDLGVTIFIVSTGRGNLLELLAAASAPAE-KHLHF 161 WPSDDLEEAGIVAREFGVNVFIVSSVAHANLKQIRLIEKQAPE-NKAFV 165	: : : : : : : : : : : : : : : : : : :
	enXIV VADFNFMNSIVEGLTRTVCSR enVII VNDFSILRTLLPLVSRRVCTT enXII VDDFESFEKIEDNLITFVCET enVI VDDFESFEKIEDNLITFVCET in-2 VANFSQIESLTSVFQNKLCTV in-4 VESF-DIQEFGLQFQGRLCGK in-3 VETYGVIEKLSARFQETPCAL in-1 VSDELALVTIVKTLGERIFAL VDVD-DLPIIARELRGSITDA NNGFFSYQMPSWFGTTKYVKP LSSVDELEQQRDEIVSYLCDL
collagenXIV collagenVII collagenVI matrilin-2 matrilin-4 matrilin-3 matrilin-1 VLA WARP cochlin	collagenXIV collagenVII collagenXII collagenVI matrilin-2 matrilin-3 matrilin-1 VLA WARP cochlin

## Figure 2A (continued)

coll XII F3-3 fibronect F3-12 WARP F3-2 β4 integrin F3-3 coll XIV F3-5 t nascin-R F3-7 WARP F3-1	PRNIKŲTĎETTDSEKĶTMTQAPGRŲLRKRĀIKRPŲAG-GESREŅTTĒ-PNORRRMIDA PSQMOVTDŲODNSKSVRMLPSTSPŲTGYRVTTTPKNGLGPŠKTKTAS-PDOTEMITEG PERTVĘSHARPRSIRVSMAPALGPDSALGYHVQLGPLOG-GSLERVEVP-AGONSTIVOG PTRIVĖSA MGPTSTRVSMQEPRCERPLOGYSVENOG-GELHRĖNĘ PNPAOTSVVVID PQHIEMOBĀSTDSFRVSWRPTSSDŽAFYRMAMIPLOG-GEŠEEVVIS-GDADSYVŽEG PKDĮTĮSNŲTKDSŲMVSNSPVASFDYKRVSYRPTOV-GRLDSSVVP-NTVREFTĮTR POOTHĀSKŲLSSGFRESWPPLIT-ADSGYVVLELVPSGKLĄTĪRRQOLE-GNATSWIWTT	[SEQ ID NO:34] [SEQ ID NO:35] [SEQ ID NO:36] [SEQ ID NO:37] [SEQ ID NO:38] [SEQ ID NO:39]
fibronect F3-1 WARP F3-2 β4 integrin F3-3 coll XIV F3-5 tenascin-R F3-7 WARP F3-1	LIPDTKYEVSVIPEYFSGPGTPETGNAAT LOPTVEYVVSVAAONNGESQPEVQTAVT LTPCTTYLVTVAAFRSGRQRESAKACT LLPNHSYVFRVRACSGWGREREGVÄTI LLPNHSYVFRVBDDETESEVÄTI LLPNHSKEVSELAVFDDETESEVÄVÄGA LNPATEXETSEVSGREESERECTLYHT LDPOTOXEVSELPESNVHLLRPQHVRYRE	

## Figure 2B

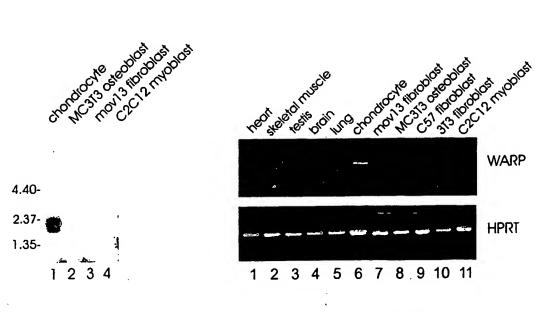


Figure 3A

Figure 3B

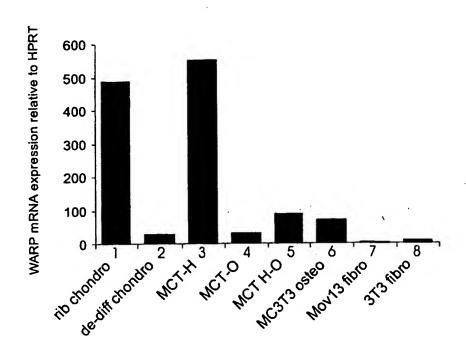


Figure 3C

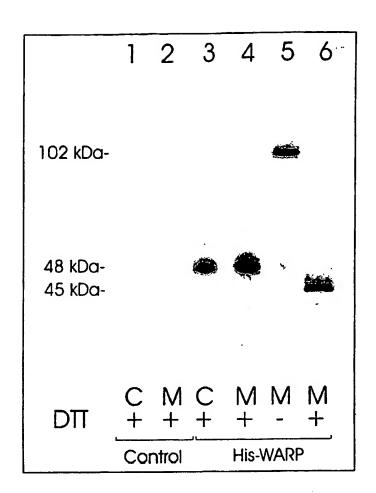


Figure 4

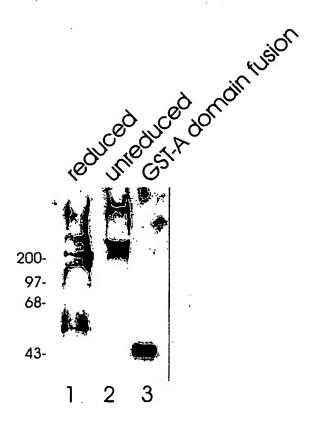


Figure 5